

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Complete if Known	
Application Number	10/634,630
Filing Date	August 5, 2003
First Named Inventor	Laumeyer et al.
Art Unit	2625
Examiner Name	Not Assigned

Sheet 1 of 4 Attorney Docket Number 2806.01US06

EXAMINER INITIAL ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code ² (<i>if known</i>)		
S.A		US-5,392,365	02-1995	Steinkirchner
		US-5,448,484	09-1995	Bullock et al.
		US-5,465,115	11-1995	Conrad et al.
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		US-6,064,768	05-2000	Hajj et al.
		US-6,141,433	10-2000	Moed et al.
		US-		
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (<i>if known</i>)			

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Sophia Hayashi

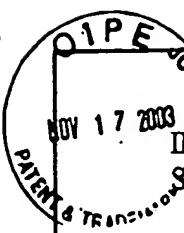
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NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL ¹	CITE NO. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
S.A		<i>Landmark Recognition using Projection Learning for Mobile Robot Navigation, Ren C. Luo, Harsh Potlapalli, Center for Robotics and Intelligent Machines, IEEE World Congress on Computational Intelligence, Vol. IV, pgs. 2703-2708, June 1994.</i>	
S.A		<i>A Real-Time Traffic Sign Recognition System, S. Estable, J. Schick, F. Stein, R. Janssen, R. Ott, W. Ritter, Y.-J. Zheng, Daimler-Benz Research Center, Proceedings of the Intelligent Vehicles '94 Symposium, Paris, France, pgs. 213-218, October 1994.</i>	
S.A		<i>Recognition of Traffic Signs by Artificial Neural Network, D. Ghica, S. Lu, X. Yuan, Dept. of Computer Science Memorial University of Newfoundland, IEEE, pgs. 1444-1449, March 1995.</i>	
S.A		<i>Realtime Traffic Sign Recognition (TSR), Jens Logemann, Ed., Universitat Koblenz - Landau, 3 pgs., November 1997.</i>	
S.A		<i>Registering Multiple Cartographic Models with the Hierarchical Mixture of Experts Algorithm, Simon Moss and Edwin R. Hancock, Dept. of Computer Science, University of New York, IEEE, pgs. 909-914, 1997.</i>	
S.A		<i>Multi-Modal Tracking of Faces for Video Communications, James L. Crowley and Francois Berard, GRAVIR - IMAG, I.N.P. Grenoble, Grenoble, France, IEEE, pgs. 640-645, 1997.</i>	
S.A		<i>Road Traffic Sign Detection and Classification, A. Escalera, L. Moreno, M. Salichs, J. Armengol, IEEE Transactions on Industrial Electronics, Vol. 44, No. 6, pgs. 848-859, December 1997.</i>	
S.A		<i>Dominant Color Transform and Circular Pattern Vector for Traffic Sign Detection and Recognition, Jung Hak and Tae Young Choi, IEICE Transaction Fundamentals, Vol. E81-A, No. 6, pgs. 1128-1135, June 1998.</i>	
S.A		<i>A Trainable Pedestrian Detection System, C. Papageorgiou, T. Evgeniou, T. Poggio, Center for Biological And Computational Learning and Artificial Intelligence Laboratory, MIT, IEEE International Conference on Intelligent Vehicles, pgs. 241-246, 1998.</i>	

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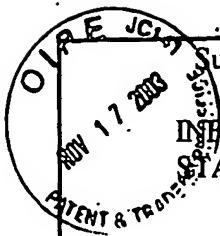
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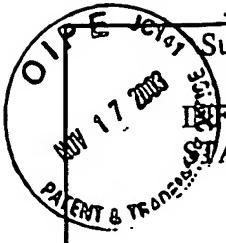
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NON PATENT LITERATURE DOCUMENTS					
EXAMINER INITIAL [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
S.A		<i>Robust Lane Recognition Embedded in a Real-Time Driver Assistance System</i> , R. Risack, P. Klausmann, W. Krüger, W. Enkelmann, Fraunhofer-Institut für Informations, Karlsruhe, Germany, IEEE International Conference on Intelligent Vehicles, pgs. 35-40, 1998.			
		<i>A Texture-based Object Detection and an Adaptive Model-based Classification</i> , T. Kalinke, C. Tzomakas, W. Seelen, Institut für Neuroinformatik, Bochum, Germany, IEEE International Conference on Intelligent Vehicles, pgs. 143-148, 1998.			
		Internet Printout: <i>The Road Sign Recognition System - RS</i> ² , Faculty of Transportation Sciences, Prague, Czech Republic, 7 pgs., c. approximately 1999.			
		Internet Printout: <i>The Chamfer System</i> , 4 pgs., c. approximately 1999.			
		<i>Real-Time Object Recognition: Hierarchical Image Matching in a Parallel Virtual Machine Environment</i> , J. You, P. Bhattacharya, S. Hungenhally, School of Computing and Information Technology, Griffith University, Brisbane, Australia, Dept. of Computer Engineering, University of Nebraska, Lincoln, Nebraska, 3 pgs., undated.			
		<i>An Architecture of Object Recognition System for Various Images Based on Multi-Agent</i> , Keiji Yanai, Koichiro Deguchi, Dept. of Computer Science, University of Electro-Communications, Tokyo, Japan, and Dept. of Mathematical Engineering and Information Physics, University of Tokyo, Tokyo, Japan, 4 pgs., undated.			
		<i>Multi-Feature Matching Algorithm for Free-Form 3D Surface Registration</i> , C. Schütz, T. Jost, H. Hügli, Institute for Microtechnology, Neuchatel, Switzerland, 3 pgs., undated.			
		<i>Representation of Uncertainty in Spatial Target Tracking</i> , Tim Baker, Malcolm Strens, DERA Farnborough, United Kingdom, 4 pgs., undated.			
EXAMINER SIGNATURE	<i>S. A. Laumeier</i>		DATE CONSIDERED	<i>10/11/05</i>	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.</p> <p>This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.</p>					
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S.A		<i>Using Centroid Covariance in Target Recognition</i> , Gang Liu and Robert M. Haralick, Dept. of Electrical Engineering, University of Washington, Seattle, Washington, 4 pgs., undated.	
		<i>Using Spatial Sorting and Ranking in Model Based Object Recognition</i> , G. Hjaltason, M. Ray, H. Samet, I. Weiss, Computer Science Dept. University of Maryland, College Park, Maryland, 3 pgs., undated.	
		<i>Surveillance Systems for Terrestrial Transport Safety and Improved User Information Capability</i> , C. Nwagbos, C. Regazzoni, M. Renard, E. Stringa, Bolton Institute, Bolton, United Kingdom, Dept. of Biophysical & Electronic Engineering, Genova, Italy, Vigitec, Brussels, Belgium, pgs. 1-7, undated.	
		<i>Illumination Invariant Image Indexing Using Moments and Wavelets</i> , Mandal, Journal of Electronic Imaging, Vol. 7 (2), pp. 282-293, April 1998.	
		<i>Feature Integration and Relevancy Feedback Analysis in Image Similarity Evaluation</i> , Celentano, Journal of Electronic Imaging, Vol 7 (2), pp. 308-317, April 1998.	
↓		<i>Auto-associative Segmentation for Real-Time Object Recognition in Realistic Outdoor Images</i> , Leonardo Estevez and Nasser Kehtarnavaz, Dept. of Electrical Engineering, Texas A&M University, Journal of Electronic Imaging, Vol. 72, pgs. 378-385, April 1998.	

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<i>S. Laumeyer</i>	10/11/03

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